

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	1086498	((dis\$1 hard) near2 (drive apparatus)) HDA HDD DASD RAID platter (magnetic storage drive\$1 assembly) near2 (disk\$5 disc\$1 media medium device) (storage near2 drive\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/21 09:37
S2	1699995	micro-actuator\$3 microactuat\$3 milliactuat\$3 milli-actuat\$3 microposition\$3 micro-position\$3 subactuat\$3 sub-actuat\$3 ((actuat\$3 position\$3 driver\$1 motor\$1 (displace\$4 adj element)) near3 (auxiliary second\$4 fin\$2 micro milli sub dual two "2" multi multiple plural piezo piezoelectric\$4 pzt bimorph piggyback\$3 (piggy adj back\$3) electrostatic\$4 (electro adj static) electro-static ((fast high wide large) near1 (resolution response bandwidth\$1 (band adj width\$1))))))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/21 09:59
S3	6981	(Bemf bemv beme (back near (emf emv eme electromotive (electro adj motive) electro-motive)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/21 09:38
S4	570020	(actuator\$1 VCM (coil adj motor) HGA HAS (load adj beam\$1) ("e" adj block) positioner\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/21 09:38
S5	38680	((voice-coil (voice near2 coil) voicecoil coil) near2 motor) VCM	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/21 09:38
S6	6799033	sens\$3 detect\$3 determin\$3 calculat\$3 deriv\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/22 09:49
S7	7842610	distance speed velocity position\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/21 09:42

S8	3216291	calculat\$3 estimat\$3 interpret\$4 measure\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/21 09:43
S9	1648	(S6 S8) with S7 with S3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/21 09:45
S10	767	S3 with (S4 S5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/21 09:46
S11	383	S10 with (S6 S8)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/21 09:46
S12	243	S9 same S10	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/21 10:19
S13	504	S1 and S2 and S3 and S4 and S5 and S6 and S7 and S8	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/21 09:47
S14	383	S10 and S11	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/21 09:48
S15	145	S13 and (S11 S12 S14)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/21 09:49
S16	101	S13 and S12	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/21 09:51
S17	428740	estimat\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/21 09:51

S18	39	S16 and S17	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/21 09:52
S19	187	360/78.05.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/21 10:00
S20	6	S19 and S13	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/21 10:00
S21	28	(US-20020118483-\$).did. or (US-6487055-\$ or US-6512659-\$ or US-6310750-\$ or US-6268983-\$ or US-6515834-\$ or US-5189578-\$ or US-6501606-\$ or US-6538836-\$ or US-6473259-\$ or US-6351341-\$ or US-5991114-\$ or US-5390059-\$ or US-5719720-\$ or US-5757573-\$ or US-5377058-\$ or US-4853810-\$ or US-4605977-\$ or US-4843502-\$ or US-5796558-\$ or US-6552878-\$ or US-6501625-\$ or US-6366416-\$ or US-6362933-\$ or US-6267004-\$ or US-5943189-\$ or US-5537273-\$).did. or (US-5021906-\$).did.	US-PGPUB; USPAT	OR	ON	2005/04/21 10:02
S22	7	(US-6421211-\$ or US-6507463-\$ or US-6268983-\$ or US-6088194-\$ or US-6351341-\$ or US-5719720-\$ or US-6052251-\$).did.	USPAT	OR	ON	2005/04/21 10:03
S23	11	(US-20020080517-\$).did. or (US-5189578-\$ or US-6088194-\$ or US-6268983-\$ or US-6359758-\$ or US-6376964-\$ or US-6396667-\$ or US-6421211-\$ or US-6507463-\$ or US-6515834-\$ or US-6633458-\$).did.	US-PGPUB; USPAT	OR	ON	2005/04/21 10:03
S24	18	(US-20020080517-\$).did. or (US-6289564-\$ or US-6088194-\$ or US-6515834-\$ or US-6310750-\$ or US-6268983-\$ or US-5796558-\$ or US-6487055-\$ or US-6351341-\$ or US-5719720-\$ or US-6512659-\$ or US-6507463-\$ or US-6452755-\$ or US-6421211-\$ or US-6404600-\$ or US-6396667-\$ or US-6376964-\$ or US-6359758-\$).did.	US-PGPUB; USPAT	OR	ON	2005/04/21 10:10

S25	11	(US-20020186498-\$ or US-20020021525-\$).did. or (US-6538836-\$ or US-6342987-\$ or US-6731454-\$ or US-6721125-\$ or US-6104581-\$ or US-6043957-\$ or US-5936805-\$ or US-5448437-\$ or US-5291355-\$).did.	US-PGPUB; USPAT	OR	ON	2005/04/21 10:04
S26	0	S12 and (S21 S22 S23 S24 S25)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/21 10:19
S27	197082	(piezoelectric piezo-electric (piezo near electric) pzt)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/22 09:25
S28	412950	degradat\$4 ((property material element) near2 (limit threshold))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/22 09:34
S29	839	S27 with S28	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/22 09:28
S32	1699995	micro-actuator\$3 microactuat\$3 milliactuat\$3 milli-actuat\$3 microposition\$3 micro-position\$3 subactuat\$3 sub-actuat\$3 ((actuat\$3 position\$3 driver\$1 motor\$1 (displace\$4 adj element)) near3 (auxiliary second\$4 fin\$2 micro milli sub dual two "2" multi multiple plural piezo piezoelectric\$4 pzt bimorph piggyback\$3 (piggy adj back\$3) electrostatic\$4 (electro adj static) electro-static ((fast high wide large) near1 (resolution response bandwidth\$1 (band adj width\$1))))))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/22 09:29
S33	1086498	((((dis\$1 hard) near2 (drive apparatus)) HDA HDD DASD RAID platter (magnetic storage drive\$1 assembly) near2 (disk\$5 disc\$1 media medium device) (storage near2 drive\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/22 09:29

S34	100	S32 same S29	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/22 09:30
S35	31	S34 and S33	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/22 09:30
S36	232162	break-down breakdown (break near down)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/22 09:34
S37	2022442	(limit threshold)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/22 09:34
S38	788	S36 with S27	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/22 09:35
S39	8736	S36 with S37	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/22 09:35
S40	39	S38 same S39	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/22 09:35
S41	17	S40 and S32	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/22 09:35
S42	5	S41 and S33	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/22 09:36
S43	247	S27 same S36 same S37	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/22 09:36

S44	80	S43 and S32 and S33	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/22 09:46
S45	2383019	speed	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/22 09:47
S46	1945307	distance	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/22 09:48
S47	1945314	distance tracks-to-go (track near (togo to-go (to adj go)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/22 10:14
S48	4373191	determin\$3 calculat\$3 deriv\$3 estimat\$3 interpret\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/22 09:50
S49	140095	S48 near3 S45	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/22 09:50
S50	129648	S48 near3 S47	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/22 09:50
S51	6981	(Bemf bemv beme (back near (emf emv eme electromotive (electro adj motive) electro-motive)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/22 09:51
S52	2	S49 same S50 same S51	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/22 09:52
S53	5229	S49 same S50	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/22 09:52

S54	2315	S33 and S51	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/22 09:53
S55	6	S53 and S54	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/22 10:12
S56	1846	S45 with S51	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/22 10:13
S57	378	S48 with S56	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/22 10:13
S58	1945308	distance track-to-go (track near (togo to-go (to adj go)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/22 10:14
S59	1945314	distance track\$1-to-go (track near (togo to-go (to adj go)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/22 10:14
S60	100	S57 and S59	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/22 10:15
S61	6	S57 same S59	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/22 10:15
S62	570020	(actuator\$1 VCM (coil adj motor) HGA HAS (load adj beam\$1) ("e" adj block) positioner\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/22 10:16
S63	38680	((voice-coil (voice near2 coil) voicecoil coil) near2 motor) VCM	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/22 10:16

S64	68	S60 and (S32 S62 S63) and S33	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/22 10:16
S65	2	"20040179290"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/06 08:45
S66	1153756	((dis\$1 hard) near2 (drive apparatus)) HDA HDD DASD RAID platter (magnetic storage drive\$1 assembly) near2 (disk\$5 disc\$1 media medium device) (storage near2 drive\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/06 08:45
S67	1767063	micro-actuator\$3 microactuat\$3 milliactuat\$3 milli-actuat\$3 microposition\$3 micro-position\$3 subactuat\$3 sub-actuat\$3 ((actuat\$3 position\$3 driver\$1 motor\$1 (displace\$4 adj element)) near3 (auxiliary second\$4 fin\$2 micro milli sub dual two "2" multi multiple plural piezo piezoelectric\$4 pzt bimorph piggyback\$3 (piggy adj back\$3) electrostatic\$4 (electro adj static) electro-static ((fast high wide large) near1 (resolution response bandwidth\$1 (band adj width\$1))))))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/06 08:45
S68	7329	(Bemf bemv beme (back near (emf emv eme electromotive (electro adj motive) electro-motive)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/06 08:45
S69	597022	(actuator\$1 VCM (coil adj motor) HGA HAS (load adj beam\$1) ("e" adj block) positioner\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/06 08:45
S70	40711	((voice-coil (voice near2 coil) voicecoil coil) near2 motor) VCM	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/06 08:45
S71	7068360	sens\$3 detect\$3 determin\$3 calculat\$3 deriv\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/06 08:45

S72	8107720	distance speed velocity position\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/06 08:45
S73	3367402	calculat\$3 estimat\$3 interpret\$4 measure\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/06 08:45
S74	551	S66 and S67 and S68 and S69 and S70 and S71 and S72 and S73	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/06 08:45
S75	1767063	micro-actuator\$3 microactuat\$3 milliactuat\$3 milli-actuat\$3 microposition\$3 micro-position\$3 subactuat\$3 sub-actuat\$3 ((actuat\$3 position\$3 driver\$1 motor\$1 (displace\$4 adj element)) near3 (auxiliary second\$4 fin\$2 micro milli sub dual two "2" multi multiple plural piezo piezoelectric\$4 pzt bimorph piggyback\$3 (piggy adj back\$3) electrostatic\$4 (electro adj static) electro-static ((fast high wide large) near1 (resolution response bandwidth\$1 (band adj width\$1))))))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/06 08:46
S76	1153756	((dis\$1 hard) near2 (drive apparatus)) HDA HDD DASD RAID platter (magnetic storage drive\$1 assembly) near2 (disk\$5 disc\$1 media medium device) (storage near2 drive\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/06 08:46
S77	2473712	speed	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/06 08:46
S78	4576165	determin\$3 calculat\$3 deriv\$3 estimat\$3 interpret\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/06 08:46
S79	7329	(Bemf bemv beme (back near (emf emv eme electromotive (electro adj motive) electro-motive)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/06 08:46

S80	1957	S77 with S79	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/06 08:46
S81	411	S78 with S80	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/06 08:46
S82	2025951	distance track\$1-to-go (track near (togo to-go (to adj go)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/06 08:46
S83	105	S81 and S82	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/06 08:46
S84	597022	(actuator\$1 VCM (coil adj motor) HGA HAS (load adj beam\$1) ("e" adj block) positioner\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/06 08:46
S85	40711	((voice-coil (voice near2 coil) voicecoil coil) near2 motor) VCM	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/06 08:46
S86	73	S83 and (S75 S84 S85) and S76	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/06 08:46